Ultipleat® High Flow Series Filter Cartridges

PIUHFENg

Description

The Ultipleat High Flow filter is a large-diameter, coreless, single open-ended, pleated cartridge with an inside-to-outside flow pattern.

The filter's unique crescent-shaped pleat geometry, combined with its large 152.4 mm (6-inch) diameter and proprietary range of available Pall filter media, allows you to use significantly fewer filters and smaller housings for high flow-rate applications.

Features and Benefits

- Coreless large diameter cartridge, synthetic construction, to minimize waste disposal
- High flow rate per filter cartridge
  - Up to 40 times fewer cartridges to change out
  - Up to 50% smaller filter system possible
- Available in a variety of filter lengths and grades
- Absolute-rated filter medium for reproducible performance
- Features proprietary unique crescent-shaped pleat geometry
- Inside-to-outside flow pattern that traps contaminant inside the element, thus preventing polluting the treated water during the cartridge change-out
- Handle for easy cartridge replacement

Ultipleat High Flow Series Filter

Materials of Construction

Filter Medium Type	Filter Medium	Support/Drainage Materials	End Caps	Wrap Materials
HDC® II Medium	High-Area Polypropylene Structure	Polypropylene	Glass-Filled Polypropylene	Polypropylene and Polyolefin Hotmelt
Profile® Medium in Ultipleat Format	Pleated Polypropylene Depth Structure	Polypropylene	Glass-Filled Polypropylene	Polypropylene
Ultipor® GF Medium	Resin Bonded Glass Fiber / Polyester Support	Polyester / Nylon	Glass-Filled Acetal	Polyester and Polyamide Hotmelt
Ultipleat HT Medium	Glass Fiber Media with Aramid Support	Craneglass/ Polybutylene Terephthalate	Acetal	Aramid
Ultipleat CAS Medium	Pleated Polypropylene / Polyether Sulfone Membrane	Polypropylene	Glass-Filled Polypropylene	Polypropylene

Operating Conditions[1]

	Polypropylene Medium/ CAS Composite Medium	Glass Fiber Medium and HT Medium[1 and 2]
Maximum Differential Pressure[2] (normal inside-to-outside flow)	3.44 bard at 82°C 50 psid at 180°F	3.44 bard at 121°C 50 psid at 250°F

Ordering Information/ Specifications

Filter Cartridge Part Number: HFU ▲ ● ◆

Code ▲	Filter Dimensions, (nominal) Diameter (in / mm) x Length (in / mm)	Suggested Maximum Water Flow Per Cartridge- US gpm / L/min / MGD
620	6 / 152.4 x 20 / 508	175 / 663 / 0.25
640	6 / 152.4 x 40 / 1016	350 / 1325 / 0.5
660	6 / 152.4 x 60 / 1524	500 / 1900 / 0.7
680	6 / 152.4 x 80 / 2032	500 / 1900 / 0.7

Code-Filter O-Ring ◆	Material
H13 (Standard for glass fiber and aramid fiber filters)	Nitrile
H13U[3]	Nitrile U-Cup
J (Standard for polypropylene filters)	Ethylene Propylene
JU[3]	Ethylene Propylene U-Cup
H4	Silicone
H	Fluoroelastomer

Filter Cartridge Pressure Drop (typical) per Filter Length Shown[4]

Medium Type	Grade ●	Absolute Liquid Removal Rating (microns) at 99.98% by particle count[5]	508 mm / 20 inch length		1016 mm /40 inch length		1524 mm / 60 inch length		2032 mm / 80 inch length	
			psid/ 100gpm	mbar/ M³/hr	psid/ 100gpm	mbar/ M³/hr	psid/ 100gpm	mbar/ M³/hr	psid/ 100gpm	mbar/ M³/hr
HDC II Medium	J060	6	0.158	0.48	0.080	0.24	0.058	0.17	0.040	0.12
	J100	10	0.120	0.36	0.060	0.18	0.040	0.12	0.030	0.09
	J200	20	0.100	0.30	0.050	0.15	0.033	0.10	0.025	0.08
Profile Medium in Ultipleat Format	UY020[6]	2	1.091	3.31	0.540	1.64	0.362	1.10	0.270	0.82
	UY045	4.5	0.489	1.48	0.242	0.73	0.162	0.49	0.121	0.37
	UY060	6	0.395	1.20	0.196	0.59	0.131	0.40	0.098	0.30
	UY100	10	0.344	1.04	0.170	0.52	0.114	0.35	0.085	0.26
	UY200	20	0.243	0.74	0.120	0.36	0.080	0.24	0.060	0.18
	UY400[7]	40	0.182	0.55	0.090	0.27	0.060	0.18	0.045	0.14
	UY700[7]	70	0.040	0.12	0.020	0.06	0.013	0.04	0.010	0.03
	UY1000[7]	90	0.027	0.08	0.013	0.04	0.009	0.03	0.007	0.02
Ultipor GF Medium	GF010	1	0.718	2.164	0.361	1.087	0.240	0.723	0.180	0.542
	GF020	2	0.219	0.66	0.110	0.33	0.073	0.22	0.055	0.17
	GF060	6	0.180	0.55	0.090	0.27	0.060	0.18	0.045	0.14
	GF100	10	0.159	0.48	0.080	0.24	0.053	0.16	0.040	0.12
	GF200	20	0.119	0.36	0.060	0.18	0.040	0.12	0.030	0.09
	GF400[7]	29	0.100	0.30	0.050	0.15	0.033	0.10	0.025	0.08
HT Medium	HT060	6					0.130	0.40	0.097	0.30
Ultipleat CAS Medium	CAS010	1	1.496	4.54	0.740	2.25	0.496	1.51	0.370	1.12

1) Maximum temperature in wet hydrocarbon applications is 60°C / 140°F for GF medium and 100°C / 212°F for HT medium.

2) For fluids compatible with the filter element at the stated temperature.

3) U-Cup seal is standard for the 1 micron composite filter.

4) Multiply this value by the total system flow to determine the aqueous pressure drop. For fluids other than water, multiply this value by the fluid's viscosity at the operating temperature in centipoise. This value is the pressure drop across the Ultipleat High Flow filter(s) only; it must be added to the pressure drop contribution from the Ultipleat High Flow filter housing.

5) The test procedure used is an adaptation of ISO 16889 :2008, modified to determine the micron size above which particles are quantitatively removed.

6) 2 micron at 99% efficiency.

7) Precision evaluation of the 99.98% removal efficiency for these coarse grades is not possible with the ISO modified test procedure utilized. The removal efficiency was determined by the maximum spherical particle analysis.

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